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NEWS 4 Apr 09 ZDB will be removed from STN
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NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
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NEWS 19 Aug 09 JAPIO to be reloaded August 18, 2002

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FULL ESTIMATED COST 0.21 0.21

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=> s all (3w)trans(3w)retinoic(3w)acid(3w)hydroxylase
7 FILES SEARCHED...

L1 38 ALL (3W) TRANS(3W) RETINOIC(3W) ACID(3W) HYDROXYLASE

=> dup rem l1
PROCESSING COMPLETED FOR L1

L2 12 DUP REM L1 (26 DUPLICATES REMOVED)

=> d 1-12

L2 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
AN 2002:51196 HCAPLUS
DN 136:118604
TI Preparation of C-4 substituted retinoids for treatment of various cancers
and dermatol. diseases and conditions
IN Njar, Vincent C. O.; Brodie, Angela M. H.; Nnane, Ivo P.
PA University of Maryland, Baltimore, USA
SO PCT Int. Appl., 51 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|----------|
| PI | WO 2002003912 | A2 | 20020117 | WO 2001-US16524 | 20010711 |
| | WO 2002003912 | A3 | 20020718 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-217465P P 1
OS CASREACT 136:118604; MARPAT 136:118604

L2 ANSWER 2 OF 12 SCISEARCH COPYRIGHT 2002 ISI (R) DUPLICATE 2
AN 2001:748357 SCISEARCH
GA The Genuine Article (R) Number: 466WC
TI UV-B light suppresses the *all-trans-retinoic acid-4-hydroxylase* (CYP26) and induces AP-1 and p53 in HaCaT keratinocytes
AU Roos T (Reprint); Huppertz B; Rosener I; Frank J; Merk H; Jugert F
CS Rhein Westfal TH Aachen, Univ Clin, D-5100 Aachen, Germany
CYA Germany
SO JOURNAL OF INVESTIGATIVE DERMATOLOGY, (AUG 2001) Vol. 117, No. 2, pp. 421-421. MA 188.
Publisher: BLACKWELL SCIENCE INC, 350 MAIN ST, MELDEN, MA 02148 USA.
ISSN: 0022-202X.
DT Conference; Journal
LA English
REC Reference Count: 0

L2 ANSWER 3 OF 12 MEDLINE DUPLICATE 3
AN 2001073589 MEDLINE
DN 20441721 PubMed ID: 10987414
TI Potent inhibition of retinoic acid metabolism enzyme(s) by novel azolyl retinoids.
AU Njar V C; Nnane I P; Brodie A M
CS Department of Pharmacology and Experimental Therapeutics, School of Medicine, University of Maryland, Baltimore 21021-1559, USA..
vnjar001@umaryland.edu
SO BIOORGANIC AND MEDICINAL CHEMISTRY LETTERS, (2000 Sep 4) 10 (17) 1905-8.
Journal code: 9107377. ISSN: 0960-894X.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200101
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20010104

L2 ANSWER 4 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2000:216097 BIOSIS
DN PREV200000216097
TI UV-B light suppresses the basal expression and inducibility of the *all-trans-retinoic acid-4-hydroxylase* in HaCaT keratinocytes.
AU Roos, T. C. (1); Roesener, I. (1); Oepen, T. (1); Frank, J. (1); Merk, H. F. (1); Jugert, F. K. (1)
CS (1) Department of Dermatology, RWTH Aachen, Aachen Germany
SO Journal of Investigative Dermatology, (April, 2000) Vol. 114, No. 4, pp. 816.
Meeting Info.: 61st Annual Meeting of the Society for Investigative Dermatology. Chicago, Illinois, USA May 10-14, 2000
ISSN: 0022-202X.
DT Conference
LA English
SL English

L2 ANSWER 5 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 4
AN 2000:292192 BIOSIS
DN PREV200000292192
TI Methods for assessing 1,25(OH)2 D3 activity in skin and for enhancing the therapeutic use of 1,25(OH)2 D3.
AU Kang, Sewon (1); Voorhees, John J.; Cauwenbergh, Geert
CS (1) Dept. of Dermatology, University of Michigan 1910 Taubman Center, Skillman, NJ, 48109-0314 USA
PI US 5998393 December 07, 1999
SO Official Gazette of the United States Patent and Trademark Office Patents,

(Dec. 7, 1999) Vol. 122, 1, pp. No pagination. e-file
ISSN: 0098-1133.

DT Patent
LA English

L2 ANSWER 6 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2000:292193 BIOSIS
DN PREV200000292193
TI Compositions for treating skin conditions by enhancing the activity of 1,25(OH)₂ D₃ using an RXR ligand and/or a 24-hydroxylase inhibitor.
AU Voorhees, John J. (1); Kang, Sewon; Cauwenbergh, Geert
CS (1) Dept. of Dermatology, University of Michigan 1910 Taubman Center, Skillman, NJ, 48109 USA
PI US 5998394 December 07, 1999
SO Official Gazette of the United States Patent and Trademark Office Patents, (Dec. 7, 1999) Vol. 1229, No. 1, pp. No pagination. e-file.
ISSN: 0098-1133.

DT Patent
LA English

L2 ANSWER 7 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1999:264383 BIOSIS
DN PREV199900264383
TI The all-trans-retinoic acid-4-hydroxylase (CYP26) is inducible in human-skin squamous cell carcinoma cell line SCC12 but not in SCC13.
AU Jugert, F. K. (1); Merk, H. F. (1); Roos, T. C. (1)
CS (1) Department of Dermatology, University of Clinic of the RWTH, Aachen Germany
SO Journal of Investigative Dermatology, (April, 1999) Vol. 112, No. 4, pp. 570.
Meeting Info.: 60th Annual Meeting of the Society for Investigative Dermatology Chicago, Illinois, USA May 5-9, 1999
ISSN: 0022-202X.

DT Conference
LA English

L2 ANSWER 8 OF 12 SCISEARCH COPYRIGHT 2002 ISI (R)
AN 1999:326762 SCISEARCH
GA The Genuine Article (R) Number: 182JL
TI The all-trans-retinoic acid-4-hydroxylase (CYP26) is inducible in human-skin squamous cell carcinoma cell line SCC12 but not in SCC13
AU Jugert F K (Reprint); Merk H F; Roos T C
CS UNIV CLIN, RHEIN WESTFAL TH AACHEN, DEPT DERMATOL, AACHEN, GERMANY
CYA GERMANY
SO JOURNAL OF INVESTIGATIVE DERMATOLOGY, (APR 1999) Vol. 112, No. 4, pp. 284-284.
Publisher: BLACKWELL SCIENCE INC, 350 MAIN ST, MALDEN, MA 02148.
ISSN: 0022-202X.

DT Conference; Journal
FS LIFE; CLIN
LA English
REC Reference Count: 0

L2 ANSWER 9 OF 12 MEDLINE DUPLICATE 5
AN 97094702 MEDLINE
DN 97094702 PubMed ID: 8939936
TI Identification of the retinoic acid-inducible all-trans-retinoic acid 4-hydroxylase.
AU White J A; Guo Y D; Baetz K; Beckett-Jones B; Bonasoro J; Hsu K E; Dilworth F J; Jones G; Petkovich M
CS Cancer Research Laboratories, Queen's University, Kingston, Ontario, K7L 3N6 Canada.. petkovic@queesu.ca
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Nov 22) 271 (47) 29922-7.
Journal code: 2985121R. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Priority Journals
OS GENBANK-U68234
EM 199701
ED Entered STN: 19970128
Last Updated on STN: 19970128
Entered Medline: 19970113

L2 ANSWER 10 OF 12 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1996:248040 BIOSIS
DN PREV199698804169
TI Regulation, properties, and solubilization of a unique cytochrome P-450 that specifically metabolizes all-trans retinoic acid to less active 4-hydroxy retinoic acid in human keratinocyte HACAT cells.
AU Marikar, Y.; Duell, E. A.; Voorhees, J. J.; Fisher, G. J.
CS Dep. Dermatol., Univ. Michigan, Ann Arbor, MI USA
SO Journal of Investigative Dermatology, (1996) Vol. 106, No. 4, pp. 807.
Meeting Info.: Annual Meeting of the Society for Investigative Dermatology Washington, D.C., USA May 1-5, 1996
ISSN: 0022-202X.
DT Conference
LA English

L2 ANSWER 11 OF 12 MEDLINE DUPLICATE 6
AN 96179746 MEDLINE
DN 96179746 PubMed ID: 8601734
TI Retinoic acid isomers applied to human skin in vivo each induce a 4-hydroxylase that inactivates only trans retinoic acid.
AU Duell E A; Kang S; Voorhees J J
CS Department of Dermatology, University of Michigan Medical School, Ann Arbor 48109-0528, USA.
SO JOURNAL OF INVESTIGATIVE DERMATOLOGY, (1996 Feb) 106 (2) 316-20.
Journal code: 0426720. ISSN: 0022-202X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199605
ED Entered STN: 19960517
Last Updated on STN: 19960517
Entered Medline: 19960503

L2 ANSWER 12 OF 12 MEDLINE DUPLICATE 7
AN 96310791 MEDLINE
DN 96310791 PubMed ID: 8757760
TI Liarozole inhibits human epidermal retinoic acid 4-hydroxylase activity and differentially augments human skin responses to retinoic acid and retinol in vivo.
AU Kang S; Duell E A; Kim K J; Voorhees J J
CS Department of Dermatology, University of Michigan Medical Center, Ann Arbor, Michigan 48109-0528, U.S.A.
SO JOURNAL OF INVESTIGATIVE DERMATOLOGY, (1996 Aug) 107 (2) 183-7.
Journal code: 0426720. ISSN: 0022-202X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199612
ED Entered STN: 19970128
Last Updated on STN: 19970128
Entered Medline: 19961211

=> d 9 ab

L2 ANSWER 9 OF 12 MEDLINE DUPLICATE 5
AB Retinoic acid (RA) metabolites of vitamin A are key regulators of gene expression involved in embryonic development and maintenance of epithelial tissues. The cellular effects of RA are dependent upon the complement of nuclear receptors expressed (RARs and RXRs), which transduce retinoid

signals into transcription regulation, the presence of nuclear retinoid-binding proteins (CRABP and CRBP), which may be involved in RA metabolism, and the activity of RA metabolizing enzymes. We have been using the zebrafish as a model to study these processes. To identify genes regulated by RA during exogenous RA exposure, we utilized mRNA differential display. We describe the isolation and characterization of a cDNA, P450RAI, encoding a novel member of the cytochrome P450 family. mRNA transcripts for P450RAI are expressed normally during gastrulation, and in a defined pattern in epithelial cells of the regenerating caudal fin in response to exogenous RA. In COS-1 cells transfected with the P450RAI cDNA, all-trans-RA is rapidly metabolized to more polar metabolites. We have identified 4-oxo-RA and 4-OH-RA as major metabolic products of this enzyme. P450RAI represents the first enzymatic component of RA metabolism to be isolated and characterized at the molecular level and provides key insight into regulation of retinoid homeostasis.

=> s retino? (5a) (oxid? or hydroxyl?)
5 FILES SEARCHED...
L3 2977 RETINO? (5A) (OXID? OR HYDROXYL?)

=> s 13 (5a) (dna or recombin? or gene?)
2 FILES SEARCHED...
5 FILES SEARCHED...
8 FILES SEARCHED...
9 FILES SEARCHED...
L4 176 L3 (5A) (DNA OR RECOMBIN? OR GENE?)

=> dup rem 14
PROCESSING COMPLETED FOR L4
L5 70 DUP REM L4 (106 DUPLICATES REMOVED)

=> s 14 and py=<1997
3 FILES SEARCHED...
5 FILES SEARCHED...
8 FILES SEARCHED...
L6 66 L4 AND PY=<1997

=> dup rem 16
PROCESSING COMPLETED FOR L6
L7 31 DUP REM L6 (35 DUPLICATES REMOVED)

=> d 1-10

L7 ANSWER 1 OF 31 HCAPLUS COPYRIGHT 2002 ACS
AN 1998:42492 HCAPLUS
DN 128:111577
TI Cloning of retinoid-metabolizing proteins and their therapeutic applications
IN Petkovich, P. Martin; White, Jay A.; Beckett, Barbara R.; Jones, Glenville
PA Queen's University At Kingston, Can.; Petkovich, P. Martin; White, Jay A.; Beckett, Barbara R.; Jones, Glenville
SO PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 4

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|--|----------|-----------------|--------------|
| PI | WO 9749815 | A1 | 19971231 | WO 1997-CA440 | 19970623 <-- |
| | W: | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | |
| | US 6063606 | A | 20000516 | US 1996-724466 | 19961001 |

| | | | | |
|--|----|----------|----------------|----------|
| AU 9731620 | A1 | 19990428 | AU 1997-31620 | 19970623 |
| EP 910644 | A1 | 19990428 | EP 1997-926938 | 19970623 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI | | | | |
| BR 9709924 | A | 19990810 | BR 1997-9924 | 19970623 |
| JP 2000513927 | T2 | 20001024 | JP 1998-502007 | 19970623 |
| US 6306624 | B1 | 20011023 | US 1997-882164 | 19970625 |
| PRAI US 1996-667546 | A2 | 19960621 | | |
| US 1996-724466 | A2 | 19961001 | | |
| WO 1997-CA440 | W | 19970623 | | |

L7 ANSWER 2 OF 31 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:242312 HCAPLUS

DN 126:288533

TI The retinoid X receptor agonist 9-cis-retinoic acid and the 24-hydroxylase inhibitor ketoconazole increase activity of 1,25-dihydroxyvitamin D3 in human skin in vivo

AU Kang, Sewon; Li, Xiao-Yan; Duell, Elizabeth A.; Voorhees, John J.

CS Department of Dermatology, University of Michigan Medical Center, Ann Arbor, MI, 48109-0314, USA

SO Journal of Investigative Dermatology (1997), 108(4), 513-518

CODEN: JIDEAE; ISSN: 0022-202X

PB Blackwell

DT Journal

LA English

L7 ANSWER 3 OF 31 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:506263 HCAPLUS

DN 132:91724

TI Oxidative stress-induced mitochondrial DNA damage: possible contribution to diabetic complications

AU Suzuki, Susumu; Hinokio, Yoshinori; Hirai, Masashi; Chiba, Masaki; Hirai, Aki; Kasuga, Shigeru; Satoh, Yoshinori; Toyota, Takayoshi

CS Third Department of Internal Medicine, Tohoku University School of Medicine, Japan

SO Bunshi Tonyobyogaku (1997), 8, 219-224

CODEN: BTONE1

PB Igaku Toshio Shuppan K.K.

DT Journal

LA Japanese

L7 ANSWER 4 OF 31 MEDLINE

DUPLICATE 1

AN 97326723 MEDLINE

DN 97326723 PubMed ID: 9183544

TI Vascular gene transfer.

AU Yla-Herttuala S

CS A.I. Virtanen Institute, University of Kuopio, Finland.

SO CURRENT OPINION IN LIPIDOLOGY, (1997 Apr) 8 (2) 72-6. Ref: 39

Journal code: 9010000. ISSN: 0957-9672.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LA English

FS Priority Journals

EM 199707

ED Entered STN: 19970805

Last Updated on STN: 19970805

Entered Medline: 19970724

L7 ANSWER 5 OF 31 HCAPLUS COPYRIGHT 2002 ACS

AN 1996:656959 HCAPLUS

DN 125:318689

TI Role of nitric oxide in the anti-tumoral effect of retinoic acid and 1,25-dihydroxyvitamin D3 on human promonocytic leukemic cells

AU Dugas, Nathalie; Mossalayi, M. Djavad; Calenda, Alphonse; Leotard, Angelique; Becherel, Pierre; Mentz, Frank; Ouaz, Fateh; Arock, Michel; Debre, Patrice; et al.

CS CNRS, Hop. Pitie Salpetriere, Paris, 75013, Fr.

SO Blood (1996), 88(9), 350-354
CODEN: BLOOAW; ISSN: 0006-4971
PB Saunders
DT Journal
LA English

L7 ANSWER 6 OF 31 HCAPLUS COPYRIGHT 2002 ACS

AN 1996:210661 HCAPLUS

DN 124:308839

TI Retinoid X receptor isotype identity directs human vitamin D receptor heterodimer transactivation for the 24-hydroxylase vitamin D response elements in yeast

AU Kephart, Daniel D.; Walfish, Paul G.; DeLuca, Hector; Butt, Tauseef R.
CS Department Molecular Virology, SmithKline Beecham Pharmaceuticals, King
Prussia, PA, 19406-0939, USA

SO Mol. Endocrinol. (1996), 10(4), 408-19
CODEN: MOENEN; ISSN: 0888-8809

DT Journal

LA English

L7 ANSWER 7 OF 31 HCAPLUS COPYRIGHT 2002 ACS

AN 1996:35004 HCAPLUS

DN 124:106643

TI Extensively oxidized derivatives of carotenoids, retinoids and related conjugated polyenes useful as nontoxic cell-differentiation inducers, antiproliferative agents, and antitumor agents

IN Burton, Graham; Daroszewski, Janusz; Phipps, Jenny

PA National Research Council of Canada, Can.

SO U.S., 23 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|--------------|
| PI | US 5475006 | A | 19951212 | US 1994-288315 | 19940810 <-- |
| | CA 2171625 | AA | 19960222 | CA 1995-2171625 | 19950810 <-- |
| | WO 9605160 | A1 | 19960222 | WO 1995-CA484 | 19950810 <-- |
| | W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD,
MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,
TM, TT | | | | |
| | RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
SN, TD, TG | | | | |
| | AU 9531600 | A1 | 19960307 | AU 1995-31600 | 19950810 <-- |
| | AU 704640 | B2 | 19990429 | | |
| | EP 722431 | A1 | 19960724 | EP 1995-927612 | 19950810 <-- |
| | EP 722431 | B1 | 20010523 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GR, IE, IT, LI, NL, PT, SE
GB 2297325 A1 19960731 GB 1996-4444 19950810 <--
GB 2297325 B2 19990113
CN 1131939 A 19960925 CN 1995-190750 19950810 <--
JP 09504038 T2 19970422 JP 1995-506884 19950810 <--
ES 2160172 T3 20011101 ES 1995-927612 19950810
FI 9601544 A 19960409 FI 1996-1544 19960409 <-- | | | | |
| PRAI | US 1994-288315 | A | 19940810 | | |
| | WO 1995-CA484 | W | 19950810 | | |

L7 ANSWER 8 OF 31 MEDLINE

DUPLICATE 2

AN 95365376 MEDLINE

DN 95365376 PubMed ID: 7638205

TI Multimeric complexes of the PML-retinoic acid receptor alpha fusion protein in acute promyelocytic leukemia cells and interference with retinoid and peroxisome-proliferator signaling pathways.

AU Jansen J H; Mahfoudi A; Rambaud S; Lavaud C; Wahli W; Dejean A

CS Unite de Recombinaison et Expression Genetique, Institut National de la Sante et de la Recherche Medicale (U.163), Institut Pasteur, Paris, France.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
AMERICA, (1995 Aug 1) 92 (18) 7401-5.
Journal code: 7505876. ISSN: 0027-8424.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199509

ED Entered STN: 19950921

Last Updated on STN: 19970203

Entered Medline: 19950911

L7 ANSWER 9 OF 31 HCAPLUS COPYRIGHT 2002 ACS

AN 1995:357819 HCAPLUS

DN 122:157675

TI Cytotoxic effects of autoxidative glycation

AU Carubelli, Raoul; Schneider, J. Edward, Jr.; Pye, Quentin N.; Floyd, Robert A.

CS Oklahoma Med. Res. Found., Univ. Oklahoma Health Sci. Cent., Oklahoma City, OK, USA

SO Free Radical Biology & Medicine (1995), 18(2), 265-9

CODEN: FRBMEH; ISSN: 0891-5849

PB Elsevier

DT Journal

LA English

L7 ANSWER 10 OF 31 HCAPLUS COPYRIGHT 2002 ACS

AN 1995:786738 HCAPLUS

DN 124:553

TI Regulation of rat liver apolipoprotein A-I, apolipoprotein A-II and acyl-coenzyme A oxidase gene expression by fibrates and dietary fatty acids

AU Berthou, Laurence; Saladin, Regis; Yaqoob, Parveen; Branellec, Didier; Calder, Philip; Fruchart, Jean-Charles; Denefle, Patrice; Auwerx, Johan; Staels, Bart

CS Departement d'Atherosclerose, Institut Pasteur, Lille, Fr.

SO European Journal of Biochemistry (1995), 232(1), 179-87

CODEN: EJBCAI; ISSN: 0014-2956

PB Springer

DT Journal

LA English

=> d 7 ab

L7 ANSWER 7 OF 31 HCAPLUS COPYRIGHT 2002 ACS

AB .beta.-Carotene and canthaxanthin, as representative carotenoids, and to a lesser extent, retinoic acid, a representative retinoid, undergo extensive oxidn. to yield substances, insofar as oxidized .beta.-carotene is a model, which have properties useful as nontoxic agents active against cell proliferation, tumors, and tumorigenic viruses, and useful as promoters of cell differentiation. It is evident from chem. anal. of the highly oxidized .beta.-carotene product mixt. that none of the various forms of vitamin A are present or are present only in minor amts. Furthermore, the biol. activities of oxidized canthaxanthin and retinoic acid, which cannot form vitamin A, indicate the presence of active substances that are different from vitamin A. Although the antiproliferative and differentiation promotion activities of oxidized .beta.-carotene resemble those of vitamin A itself, generally the effects are more powerful for oxidized .beta.-carotene in a wide variety of circumstances. Unlike vitamin A, the oxidized .beta.-carotene of the invention is nontoxic.

=> d 11-20

L7 ANSWER 11 OF 31 HCAPLUS COPYRIGHT 2002 ACS

AN 1995:252073 HCAPLUS

DN 122:23513

TI Inhibition of nitric oxide synthesis in vascular smooth muscle by

AU retinoids
AU Hirokawa, K.; O'Shaughnessy, K. M.; Ramrakha, P.; Wilkins, M. R.
CS Dep. Clin. Pharmacol., Royal Postgraduate Medical School, London, W12 ONN,
UK
SO Br. J. Pharmacol. (1994), 113(4), 1448-54
CODEN: BJPCBM; ISSN: 0007-1188
DT Journal
LA English

L7 ANSWER 12 OF 31 HCAPLUS COPYRIGHT 2002 ACS
AN 1993:205989 HCAPLUS
DN 118:205989
TI Fatty acids and retinoids control lipid metabolism through activation of peroxisome proliferator-activated receptor-retinoid X receptor heterodimers
AU Keller, Hansjoerg; Dreyer, Christine; Medin, Jeffrey; Mahfoudi, Abderrahim; Ozato, Keiko; Wahli, Walter
CS Inst. Biol. Anim., Univ. Lausanne, Lausanne, CH-1015, Switz.
SO Proc. Natl. Acad. Sci. U. S. A. (1993), 90(6), 2160-4
CODEN: PNASA6; ISSN: 0027-8424
DT Journal
LA English

L7 ANSWER 13 OF 31 SCISEARCH COPYRIGHT 2002 ISI (R)
AN 93:271279 SCISEARCH
GA The Genuine Article (R) Number: KY848
TI COMBINATIONS OF NITRIC OXIDE-GENERATING AGENTS AND RETINOIC ACID INDUCE CAPACITY FOR RESPIRATORY BURST AND ALKALINE PHOS-PHATASE ACTIVITY IN U-937 CELLS
AU YAMAZAKI A (Reprint); BIRNBOIM H C
CS OTTAWA REG CANC CTR, OTTAWA K1H 8L6, ON, CANADA; UNIV OTTAWA, OTTAWA K1N 6N5, ONTARIO, CANADA
CYA CANADA
SO FASEB JOURNAL, (20 APR 1993) Vol. 7, No. 7, pp. A1098.
ISSN: 0892-6638.
DT Conference; Journal
FS LIFE
LA ENGLISH
REC No References

L7 ANSWER 14 OF 31 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1993:335587 BIOSIS
DN PREV199345030312
TI Combinations of nitric oxide-generating agents and retinoic acid induced capacity for respiratory burst and alkaline phosphatase activity in U-937 cells.
AU Yamazaki, A.; Birnboim, H. C.
CS Ottawa Regional Cancer Centre, Univ. Ottawa, Ottawa, ON K1H 8L6 Canada
SO FASEB Journal, (1993) Vol. 7, No. 7, pp. A1098.
Meeting Info.: Joint Meeting of the American Society for Biochemistry and Molecular Biology and American Chemical Society Division of Biological Chemistry San Diego, California, USA May 30-June 3, 1993
ISSN: 0892-6638.
DT Conference
LA English

L7 ANSWER 15 OF 31 SCISEARCH COPYRIGHT 2002 ISI (R) DUPLICATE 3
AN 94:92148 SCISEARCH
GA The Genuine Article (R) Number: MV465
TI WHAT HAVE BIOMARKERS TOLD US ABOUT THE EFFECTS OF CONTAMINANTS ON THE HEALTH OF FISH-EATING BIRDS IN THE GREAT-LAKES - THE THEORY AND A LITERATURE-REVIEW
AU FOX G A (Reprint)
CS ENVIRONM CANADA, ECS, NAT WILDLIFE RES CTR, CANADIAN WILDLIFE SERV, DIV WILDLIFE TOXICOL, HULL K1A 0H3, PQ, CANADA (Reprint)
CYA CANADA
SO JOURNAL OF GREAT LAKES RESEARCH, (1993) Vol. 19, No. 4, pp. 722-736.
ISSN: 0380-1330.

DT General Review; Journal
FS AGRI
LA ENGLISH
REC Reference Count: 91
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L7 ANSWER 16 OF 31 MEDLINE DUPLICATE 4
AN 94199412 MEDLINE
DN 94199412 PubMed ID: 8149239
TI Adult rabbit brain synthesizes retinoic acid.
AU Dev S; Adler A J; Edwards R B
CS Department of Ophthalmology L-907, Boston University School of Medicine,
MA 02118.
NC EY04368 (NEI)
SO BRAIN RESEARCH, (1993 Dec 31) 632 (1-2) 325-8.
Journal code: 0045503. ISSN: 0006-8993.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199405
ED Entered STN: 19940523
Last Updated on STN: 19940523
Entered Medline: 19940511

L7 ANSWER 17 OF 31 HCAPLUS COPYRIGHT 2002 ACS
AN 1993:470113 HCAPLUS
DN 119:70113
TI Effect of retinoic acid and vitamin D on the expression of interleukin-1.beta., tumor necrosis factor-.alpha. and interleukin-6 in the human monocytic cell line U937
AU Taimi, M.; DeFacque, H.; Commes, T.; Favero, J.; Caron, E.; Marti, J.; Dornand, J.
CS Sci. Tech. Languedoc, Univ. Montpellier II, Montpellier, Fr.
SO Immunology (1993), 79(2), 229-35
CODEN: IMMUAM; ISSN: 0019-2805
DT Journal
LA English

L7 ANSWER 18 OF 31 HCAPLUS COPYRIGHT 2002 ACS
AN 1993:557423 HCAPLUS
DN 119:157423
TI Biological role of human cytosolic aldehyde dehydrogenase 1: Hormonal response, retinal oxidation and implication in testicular feminization
AU Yoshida, A.; Hsu, L. C.; Yanagawa, Y.
CS Dep. Biochem. Genet., Beckman Res. Inst. City of Hope, Duarte, CA, 91010,
USA
SO Adv. Exp. Med. Biol. (1993), 328(Enzymology and Molecular Biology of Carbonyl Metabolism 4), 37-44
CODEN: AEMBAP; ISSN: 0065-2598
DT Journal
LA English

L7 ANSWER 19 OF 31 MEDLINE DUPLICATE 5
AN 93176501 MEDLINE
DN 93176501 PubMed ID: 8439447
TI 13-cis-retinoic acid affects oxidation and DNA damage in oxidative-positive SLE lymphocytes but may not be useful for therapy.
AU Benke P J; Belmar P; Tozman E; Monroe G; Mauldin C; Drisko J
CS Mailman Center, University of Miami School of Medicine, Florida 33101.
SO BIOCHEMICAL MEDICINE AND METABOLIC BIOLOGY, (1993 Feb) 49 (1)
13-24.
Journal code: 8605718. ISSN: 0885-4505.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199304

ED Entered STN: 19930416
Last Updated on STN: 19930416
Entered Medline: 19930401

L7 ANSWER 20 OF 31 HCAPLUS COPYRIGHT 2002 ACS
AN 1992:548122 HCAPLUS
DN 117:148122
TI Convergence of 9-cis retinoic acid and peroxisome proliferator signaling pathways through heterodimer formation of their receptors
AU Kliewer, Steven A.; Umesono, Kazuhiko; Noonan, Daniel J.; Heyman, Richard A.; Evans, Ronald M.
CS Howard Hughes Med. Inst., Salk Inst. Biol. Stud., La Jolla, CA, 92037, USA
SO Nature (London) (1992), 358(6389), 771-4
CODEN: NATUAS; ISSN: 0028-0836
DT Journal
LA English

=> d 21-31

L7 ANSWER 21 OF 31 MEDLINE DUPLICATE 6
AN 92117989 MEDLINE
DN 92117989 PubMed ID: 1346245
TI Induction of peroxisomal beta-**oxidation genes** by **retinoic** acid in cultured rat hepatocytes.
AU Hertz R; Bar-Tana J
CS Department of Biochemistry, Hebrew University-Hadassah Medical School, Jerusalem, Israel.
SO BIOCHEMICAL JOURNAL, (1992 Jan 1) 281 (Pt 1) 41-3.
Journal code: 2984726R. ISSN: 0264-6021.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199202
ED Entered STN: 19920308
Last Updated on STN: 19980206
Entered Medline: 19920218

L7 ANSWER 22 OF 31 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1992:98059 BIOSIS
DN BA93:54609
TI A FAMILIAL RB1 MUTATION DETECTED BY THE HOT TECHNIQUE IS HOMOZYGOUS IN A SECOND PRIMARY NEOPLASM.
AU WEIR-THOMPSON E; CONDIE A; LEONARD R C F; PROSSER J
CS MRC HUMAN GENETICS UNIT, WESTERN GEN. HOSP., CREWE RD., EDINBURGH EH24 2XU, UK.
SO ONCOGENE, (1991) 6 (12), 2353-2356.
CODEN: ONCNES. ISSN: 0950-9232.
FS BA; OLD
LA English

L7 ANSWER 23 OF 31 MEDLINE DUPLICATE 7
AN 92112209 MEDLINE
DN 92112209 PubMed ID: 1662663
TI The Sp1 transcription factor gene (SP1) and the 1,25-dihydroxyvitamin D3 receptor gene (VDR) are colocalized on human chromosome arm 12q and rat chromosome 7.
AU Szpirer J; Szpirer C; Riviere M; Levan G; Marynen P; Cassiman J J; Wiese R; DeLuca H F
CS Departement de Biologie Moleculaire, Universite Libre de Bruxelles, Belgium.
NC DK-14881 (NIDDK)
SO GENOMICS, (1991 Sep) 11 (1) 168-73.
Journal code: 8800135. ISSN: 0888-7543.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals

EM 199202
ED. Entered STN: 19920308
Last Updated on STN: 19920308
Entered Medline: 19920214

L7 ANSWER 24 OF 31 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1990:511466 BIOSIS
DN BR39:123462
TI USE OF HUDSON'S MASK FOR SHORT OPHTHALMOLOGICAL PROCEDURES IN CHILDREN
RESULTS IN LOW COMPLICATION RATE.
AU SUSMAN D; SHAH N
CS NEW YORK HOSP.-CORNELL MED. CENT., 525 E 68 ST., NEW YORK 10021.
SO 1990 ANNUAL MEETING OF THE AMERICAN SOCIETY OF ANESTHESIOLOGISTS.
ANESTHESIOLOGY. (1990) 73 (3A), A37.
CODEN: ANESAV. ISSN: 0003-3022.
DT Conference
FS BR; OLD
LA English

L7 ANSWER 25 OF 31 WPIDS (C) 2002 THOMSON DERWENT
AN 1987-362700 [51] WPIDS
DNC C1987-155364
TI New coenzyme A and N-hydroxy succinimidyl ester(s) - of all-trans-retinoic acid, useful e.g. against dermatological conditions.

DC B02 B03
IN DE, LUCA H F; KUTNER, A; SCHNOES, H K; DELUCA, H F; DELUCA, H E
PA (WISC) WISCONSIN ALUMNI RES FOUND

CYC 15
PI WO 8707604 A 19871217 (198751)* EN 9p <--
RW: AT BE CH DE FR GB IT LU NL SE
W: CH DE GB JP

EP 271552 A 19880622 (198825) EN <--
R: AT BE CH DE FR GB IT LI LU NL SE

US 4757140 A 19880712 (198830) 4p <--

JP 01500190 W 19890126 (198910) <--

US 4841038 A 19890620 (198931) <--

US 4966965 A 19901030 (199046) <--

CA 1305136 C 19920714 (199234) C07H019-207 <--

EP 271552 B1 19931027 (199343) EN 9p C07D207-46 <--
R: AT BE CH DE FR GB IT LI LU NL SE

DE 3787958 G 19931202 (199349) C07D207-46 <--

JP 06051716 B2 19940706 (199425) 5p C07H019-207 <--

EP 271552 A4 19900411 (199511) <--

ADT WO 8707604 A WO 1987-US1276 19870601; EP 271552 A EP 1987-904165 19870601;
US 4757140 A US 1986-869791 19860602; JP 01500190 W JP 1987-503792
19870601; US 4841038 A US 1988-190443 19880505; US 4966965 A US
1989-327540 19890323; CA 1305136 C CA 1987-538880 19870604; EP 271552 B1
EP 1987-904165 19870601, WO 1987-US1276 19870601; DE 3787958 G DE
1987-3787958 19870601, EP 1987-904165 19870601, WO 1987-US1276 19870601;
JP 06051716 B2 JP 1987-503792 19870601, WO 1987-US1276 19870601; EP 271552
A4 EP 1987-904165

FDT EP 271552 B1 Based on WO 8707604; DE 3787958 G Based on EP 271552, Based
on WO 8707604; JP 06051716 B2 Based on JP 01500190, Based on WO 8707604

PRAI US 1986-869791 19860602; US 1988-190443 19880505

IC ICM C07H019-207
ICS A61K031-70; C07C051-56; C07C175-00; C07D207-46; C07D405-14;
C07H019-20

L7 ANSWER 26 OF 31 HCAPLUS COPYRIGHT 2002 ACS
AN 1986:513450 HCAPLUS
DN 105:113450
TI Retinoids interact with the mechanism of neutrophil oxidase activation
AU Cooke, Eryl; Hallett, Maurice B.
CS Coll. Med., Univ. Wales, Cardiff, CF4 4XN, UK
SO Biochem. Soc. Trans. (1986), 14(5), 954-5
CODEN: BCSTB5; ISSN: 0300-5127
DT Journal
LA English

L7 ANSWER 27 OF 31 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1986:179734 BIOSIS
DN BR30:91606
TI ANESTHESIA FOR INFANTS DURING RADIOTHERAPY AN INSUFFLATION TECHNIQUE.
AU BRETT C M; WARA W M; HAMILTON W K
CS DEP. ANESTHESIA, UNIV. CALIFORNIA, ROOM S-436, THIRD AND PARNASSUS AVE.,
SAN FRANCISCO, CA 94143.
SO Anesthesiology, (1986) 64 (3), 402-405.
CODEN: ANESAV. ISSN: 0003-3022.
FS BR; OLD
LA English

L7 ANSWER 28 OF 31 HCPLUS COPYRIGHT 2002 ACS
AN 1986:418425 HCPLUS
DN 105:18425
TI Anti-oxidant effects of retinoids on inflammatory skin diseases
AU Yoshioka, A.; Miyachi, Y.; Imamura, S.; Niwa, Y.
CS Fac. Med., Kyoto Univ., Kyoto, 606, Japan
SO Arch. Dermatol. Res. (1986), 278(3), 177-83
CODEN: ADREDL; ISSN: 0340-3696
DT Journal
LA English

L7 ANSWER 29 OF 31 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1985:426631 BIOSIS
DN BA80:96623
TI METABOLISM OF RETINOID BY EMBRYONAL CARCINOMA CELLS.
AU GUBLER M L; SHERMAN M I
CS DEP. CELL BIOL., ROCHE INST. MOLECULAR BIOL., ROCHE RESEARCH CENTER,
NUTLEY, NEW JERSEY 07110.
SO J BIOL CHEM, (1985) 260 (17), 9552-9558.
CODEN: JBCHA3. ISSN: 0021-9258.
FS BA; OLD
LA English

L7 ANSWER 30 OF 31 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1984:355111 BIOSIS
DN BA78:91591
TI UV INDUCED EXTRACELLULAR FACTOR FROM HUMAN FIBROBLASTS COMMUNICATES THE UV
RESPONSE TO NONIRRADIATED CELLS.
AU SCHORPP M; MALLICK U; RAHMSDORF H J; HERRLICH P
CS KERNFORSCHUNGSZENTRUM KARLSRUHE, INSTITUT FUER GENETIK UND TOXIKOLOGIE,
D-7500 KARLSRUHE 1, FRG.
SO CELL, (1984) 37 (3), 861-868.
CODEN: CELLB5. ISSN: 0092-8674.
FS BA; OLD
LA English

L7 ANSWER 31 OF 31 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
8
AN 1983:224353 BIOSIS
DN BA75:74353
TI ANTI OXIDANT PROPERTIES OF LIGNIN.
AU CATIGNANI G L; CARTER M E
CS DEPARTMENT OF FOOD SCIENCE, NORTH CAROLINA STATE UNIVERSITY, RALEIGH, N.C.
27650.
SO J FOOD SCI, (1982) 47 (5), 1745.
CODEN: JFDASAZ. ISSN: 0022-1147.
FS BA; OLD
LA English

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(FILE 'HOME' ENTERED AT 19:50:22 ON 09 AUG 2002)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCPLUS,
NTIS, ESBIOSBASE, BIOTECHNO, WPIDS' ENTERED AT 19:50:29 ON 09 AUG 2002
L1 38 S ALL (3W)TRANS(3W)RETINOIC(3W)ACID(3W)HYDROXYLASE

L2 12 DUP REM L1 (DUPLICATES REMOVED)
L3. 2977 S RETINO? (5A) (OXID? OR HYDROXYL?)
L4 176 S L3 (5A) (DNA OR RECOMBIN? OR GENE?)
L5 70 DUP REM L4 (106 DUPLICATES REMOVED)
L6 66 S L4 AND PY=<1997
L7 31 DUP REM L6 (35 DUPLICATES REMOVED)

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| CA SUBSCRIBER PRICE | -0.62 | -0.62 |

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